## **EXHIBIT 4**

Page 1

## UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA SAN FRANCISCO DIVISION

WAYMO LLC,

Plaintiff,

vs. No. 3:17-cv-00939-WHA

UBER TECHNOLOGIES, INC.;

OTTOMOTTO LLC; OTTO TRUCKING,

INC.,

Defendants.

\_\_\_\_/

WAYMO & UBER CONFIDENTIAL ATTORNEYS' EYES ONLY

VIDEOTAPED DEPOSITION OF GREGORY KINTZ

SAN FRANCISCO, CALIFORNIA

WEDNESDAY, APRIL 26, 2017

BY: ANDREA M. IGNACIO, CSR, RPR, CRR, CCRR, CLR ~ CSR LICENSE NO. 9830

JOB NO. 2592507

PAGES 1 - 234

	Page 207			
1	photographs of the components of the Spider system	18:10		
2	that were laid out.	18:10		
3	One of the key components in that well, we	18:10		
4	can start at the top, but one of the key components is	18:11		
5	the rotating housing. So the configuration of the	18:11		
6	mechanical components the photographs clearly show	18:11		
7	bearing structures that indicated they rotated around	18:11		
8	the central axis.	18:11		
9	Q Okay.	18:11		
10	(Document marked Exhibit 1054	18:11		
11	for identification.)	18:11		
12	MR. KIM: So I've handed you what's been	18:11		
13	marked as Exhibit No. 1054.	18:11		
14	Q Are these the photos that you are referring	18:11		
15	to?	18:11		
16	A Yes.	18:11		
17	Q So you never personally inspected the Spider	18:11		
18	components; correct?	18:11		
19	A No.	18:11		
20	Q But you were informed that they were made	18:11		
21	available for inspection; correct?	18:11		
22	A Yes.	18:12		
23	Q And what's described or you never have	18:12		
24	you seen any evidence of a completed Spider prototype?	18:12		
25	MR. JAFFE: Objection; form.	18:12		

	Pag	ge 209
1	a disassembled state.	18:14
2	The component right beside it, which is a	18:14
3	block with a large number of fiberoptics, is a	18:14
4	fiberoptic demultiplexing system for taking the output	18:14
5	of the eight lasers and routing them to 64 individual	18:14
6	fibers that, based on the declarations of the design	18:14
7	that was provided by Uber, has each of the fiberoptics	18:15
8	going to its own optical cavity.	18:15
9	And then finally, there is a rotary member	18:15
10	that the that provides the final piece of hardware.	18:15
11	There's also what appears to be a control board.	18:15
12	And then there in this photograph, we do not	18:15
13	see the optical cavity for the Spider prototype	18:15
14	device.	18:15
15	MR. KIM: Q. So what's depicted in	18:15
16	Uber00011668 that you've been describing, it's fair to	18:15
17	say that's not a functioning LiDAR device?	18:15
18	MR. JAFFE: Objection; form.	18:16
19	THE WITNESS: In its current configuration,	18:16
20	it it probably would not function.	18:16
21	MR. KIM: And you mentioned a housing	18:16
22	earlier.	18:16
23	Q Is the housing depicted on this photograph?	18:16
24	A I have I don't see that total outer	18:16
25	envelope component for the system in these components	18:16

	Pag	ge 211
1	'66 oh, and '67, are images of the optical cavity.	18:19
2	Q And from those images, were you able to	18:19
3	determine whether any of those optical cavities	18:19
4	included a transmit block?	18:19
5	A It can be most clearly seen in Uber00011656.	18:20
6	We see eight fiberoptics mounted through a plate with	18:20
7	two alignment pins and what appear to be fasteners	18:20
8	holding the plate in place. And that's on one end of	18:20
9	the metal housing.	18:20
10	And as seen in the images, for example,	18:20
11	Uber00011654, there is a lens that is acting as a	18:20
12	transmit and receive lens for this system.	18:20
13	Q And do any of these photos show a receive	18:21
14	block in the optical cavity?	18:21
15	A Yes. If we look at Uber00011644, '45, and	18:22
16	'46, this shows two boards connected together. And	18:22
17	the larger board is most likely an electrical	18:22
18	interface board of some undisclosed design to me at	18:22
19	this point in time.	18:22
20	And the avalanche photodiodes can be seen on	18:22
21	Uber00011646. They are the eight devices that you see	18:22
22	on the smaller green board, the smaller daughter	18:23
23	board.	18:23
24	And we noticed that the spacing and	18:23
25	angulation of those avalanche photodiodes also matches	18:23

	Page 212		
1	the angulation and spacing of the fiber inputs as seen	18:23	
2	in Uber00011656.	18:23	
3	Q Now, what's depicted in Uber00011644, that's	18:23	
4	not in the optical cavity; correct?	18:23	
5	A If we look at image '644; right?	18:23	
6	So if we look at the image Uber00011646, we	18:24	
7	see mounting holes around the avalanche photodiodes	18:24	
8	that appear to interface to the optical cavity as seen	18:24	
9	in image Uber00011660.	18:24	
10	Q Okay. That's not my question. That's not	18:24	
11	responsive to my question.	18:24	
12	My question is: What you've described in	18:24	
13	Uber00011644, that's not physically in the optical	18:24	
14	cavity that you referred to in the other slides;	18:25	
15	correct?	18:25	
16	MR. JAFFE: Objection; form. Excuse me.	18:25	
17	THE WITNESS: I disagree, because the	18:25	
18	interface of those avalanche photodiodes are designed	18:25	
19	to be set against the side of the optical cavity as to	18:25	
20	receive the information from the return signals.	18:25	
21	MR. KIM: That's not my question.	18:25	
22	Q I'm I'm asking you, the part that's	18:25	
23	disclosed in Uber00011644, that's sitting on what	18:25	
24	appears to be a a blue moving mat.	18:25	
25	Do you see that?	18:25	

	1	Page 213
1	A Yes.	18:25
2	Q This piece is not currently, as at the time	18:25
3	of this picture, inside physically inside the	18:25
4	optical cavity; correct?	18:25
5	A Like every other piece of this laser radar	18:25
6	during this photographic section, it's completely	18:26
7	dismantled.	18:26
8	Q Thank you.	18:26
9	So that would be, yes, it's not in the	18:26
10	optical cavity; correct?	18:26
11	MR. JAFFE: Objection; form.	18:26
12	THE WITNESS: Yes, it's not in the optical	18:26
13	cavity in these photographs.	18:26
14	MR. KIM: Q. Mr. Kintz, have you seen any	18:26
15	evidence that the components depicted in these	18:26
16	photographs we've been discussing have ever been	18:26
17	completely assembled?	18:26
18	A Yes. In the I believe it was in the	18:26
19	Boehmke, but it could have been in the Haslim	18:26
20	declaration or deposition, they talk about the testing	ng 18:26
21	of this optical cavity and not being satisfied with	18:26
22	the overall alignment of the various channels relative	ve 18:27
23	to each other.	18:27
24	Q So your testimony is that Mr. Haslim	18:27
25	testified either in his deposition or declaration that	at 18:27
I		

	Page 215			
1	multiple components that were exhibited here at this	18:28		
2	system and the fact that those were actually	18:28		
3	fabricated, it would be reasonable to assume that they	18:28		
4	would have assembled these two for testing purposes.	18:29		
5	MR. KIM: Q. Is there any evidence that	18:29		
6	you've seen that the Spider was ever manufactured into	18:29		
7	a complete working LiDAR?	18:29		
8	MR. JAFFE: Objection; form.	18:29		
9	THE WITNESS: In a complete working system,	18:29		
10	no, I'm not aware of that.	18:29		
11	MR. KIM: Q. Is there any evidence that	18:29		
12	you've seen that Spider was ever used as a complete	18:29		
13	working LiDAR?	18:29		
14	A No, I'm not aware of any evidence.	18:29		
15	Q Are you aware of any evidence that Spider was	18:29		
16	ever sold as a complete working LiDAR? 18:29			
17	A No evidence that it was sold.	18:29		
18	Q Are you aware of any evidence that Spider was	18:29		
19	ever offered for sale?	18:29		
20	A No evidence it was offered for sale.	18:29		
21	Q Are you aware of any evidence that Spider was	18:30		
22	imported into the U.S.?	18:30		
23	A I have no evidence that it was imported into	18:30		
24	the U.S.	18:30		
25	Q Have you seen any evidence to suggest that	18:30		
I				

	Pag	ge 216	
1	there was any development of Spider after October 2016	18:30	
2	of this year?	18:30	
3	MR. JAFFE: Objection; form.	18:30	
4	THE WITNESS: Well, in my reply declaration,	18:30	
5	I would have to go back and specifically review the	18:30	
6	timelines that were discussed in the different	18:30	
7	depositions, and most notably the Haslim and the		
8	Boehmke and the Gruver depositions to confirm any time	18:30	
9	line.	18:31	
10	But, as of right now, I'm not aware of any	18:31	
11	specific actions after October.	18:31	
12	MR. KIM: Q. Mr. Kintz, in your opening	18:31	
13	declaration, in paragraphs 65 through 70	18:31	
14	A (Witness complies.)	18:31	
15	Q you concluded that the Fuji used a common	18:31	
16	lens system; correct?	18:32	
17	A Based on the yes.	18:32	
18	Q And that conclusion was incorrect; correct?	18:32	
19	MR. JAFFE: Objection; form.	18:32	
20	THE WITNESS: Given the little information	18:32	
21	that I had at the time, the the system suggested a	18:32	
22	single lens system, but that did not turn out to be	18:32	
23	true.	18:32	
24	MR. KIM: Q. It did more than suggest a	18:32	
25	common lens system, according to your original	18:32	

	Pag	ge 221
1	Sorry.	18:39
2	Well, I believe my original opinions were	18:39
3	reasonable based on the information then available.	18:40
4	The newly provided information requires me to withdraw	18:40
5	my opinion that the Fuji system infringes the	18:40
6	'922 patent and the '464 patents.	18:40
7	Q So your current opinion is that Fuji does not	18:40
8	infringe the '922 and the '464 patents; correct?	18:40
9	A That is correct.	18:40
10	Q And in your declaration, you said that you	18:40
11	reviewed all of the asserted patents in this case;	18:40
12	correct?	18:40
13	A In the original declaration?	18:40
14	Q Yes.	18:40
15	A Yes.	18:40
16	Q And so aside from the '944 and '922 patents,	18:40
17	is it your opinion that Fuji does not infringe any of	18:40
18	those asserted patents?	18:40
19	MR. BAYER: You said '944?	18:40
20	MR. KIM: Q. Aside from the '922 and the	18:41
21	'464, is it your opinion that Fuji does not infringe	18:41
22	any of the other asserted patents in this case?	18:41
23	MR. JAFFE: Objection; form.	18:41
24	THE WITNESS: Can I ask what other asserted	18:41
25	patents you're referencing?	18:41
1		

			Page 225
1		Do you see that?	18:46
2	A	I do.	18:47
3	Q	So that describes a monostatic lens	18:47
4	configu	uration; doesn't it?	18:47
5		MR. JAFFE: Objection; form.	18:47
6		THE WITNESS: Yes.	18:47
7		MR. KIM: Q. And that's what you referred t	18:47
8	as a co	ommon lens system in your original declaration	n? 18:47
9	A	Yes.	18:47
10	Q	So let me ask you again: Is it your opinion	n 18:47
11	that Fu	aji does not infringe the '273 patent?	18:47
12		MR. JAFFE: Objection; form.	18:47
13		THE WITNESS: In my original declaration	18:47
14	or		18:47
15		MR. KIM: Currently.	18:47
16	Q	Based on the information you now know, Fuji	18:47
17	does no	ot infringe the '273 patent; correct?	18:47
18		MR. JAFFE: Same objection.	18:47
19		THE WITNESS: So looking at the last clause	18:47
20	of Clai	im 1, I would agree with you that this is a	18:47
21	common	lens system, monostatic system.	18:48
22		MR. KIM: Q. And Fuji is a bi-static system	n 18:48
23	that do	oes not have a common lens; correct?	18:48
24	А	That is correct.	18:48
25	Q	Okay. Now turning to Exhibit No. 1056.	18:48